

We claim:

1. A composition comprising:
 - (a) a saponin; and
 - (b) an oligonucleotide comprising at least one unmethylated CpG dinucleotide.
2. The composition as claimed in claim 1, wherein the saponin is derived from *Quillaja saponaria*.
3. The composition as claimed in claim 2, wherein the saponin is chemically modified.
4. The composition as claimed in claim 2, wherein the saponin comprises a substantially pure saponin.
5. The composition as claimed in claim 4, wherein the substantially pure saponin comprises QS-7, QS-17, QS-18, or QS-21.
6. The composition as claimed in claim 5, wherein the substantially pure saponin comprises QS-21.
7. The composition as claimed in claim 1, wherein the oligonucleotide is chemically modified.
8. The composition as claimed in claim 7, wherein the oligonucleotide is modified with at least one phosphorothioate internucleotide linkage.
9. The composition as claimed in claim 1, wherein the oligonucleotide comprises a CpG motif having the formula 5'X₁CGX₂3', wherein at least one nucleotide

09760505_01.01

SUB
A10

separates consecutive CpGs, and wherein X_1 is adenine, guanine, or thymine, and X_2 is cytosine, thymine, or adenine.

10. The composition as claimed in claim 9, wherein the CpG motif comprises TCCATGACGTTCTGACGTT or TCCTCGTTTTGTCGTTTTGTCGTT.

11. The composition as claimed in claim 1, wherein the composition increases an innate immune response when administered to a mammal.

12. The composition as claimed in claim 1, wherein the composition increases an innate immune response when administered to a human.

13. The composition as claimed in claim 1, wherein the composition increases an innate immune response when administered to a mammal other than a human.

14. The composition as claimed in claim 11, wherein the composition further enhances a natural killer cell response.

15. The composition as claimed in claim 14, wherein the composition further enhances a natural killer cell response in a positive synergistic manner.

16. A method for stimulating innate immunity comprising administering an effective amount of a composition comprising:

- (a) a saponin; and
- (b) an oligonucleotide comprising at least one unmethylated CpG motif to an individual.

17. The method as claimed in claim 16, wherein the saponin is derived from *Quillaja saponaria*.

18. The method as claimed in claim 16, wherein the saponin is chemically modified.

19. The method as claimed in claim 17, wherein the saponin comprises a substantially pure saponin.

20. The method as claimed in claim 19, wherein the substantially pure saponin comprises QS-7, QS-17, QS-18, or QS-21.

21. The method as claimed in claim 20, wherein the substantially pure saponin comprises QS-21.

22. The method as claimed in claim 16, wherein the oligonucleotide is chemically modified.

23. The method as claimed in claim 22, wherein the oligonucleotide is modified with at least one phosphorothioate internucleotide linkage.

24. The method as claimed in claim 16, wherein the oligonucleotide comprises a CpG motif having the formula 5'X₁CGX₂3', wherein at least one nucleotide separates consecutive CpGs, and wherein X₁ is adenine, guanine, or thymine, and X₂ is cytosine, thymine, or adenine.

25. The method as claimed in claim 24, wherein the CpG motif comprises TCCATGACGTTCTGACGTT or TCGTCGTTTGTCTGTTTGTCTGTT.

26. The method as claimed in claim 16, wherein the composition stimulates an innate immune response when administered to a mammal.

27. The method as claimed in claim 16, wherein the composition stimulates an innate immune response when administered to a human.

28. The method as claimed in claim 16, wherein the composition stimulates an innate immune response when administered to a mammal other than a human.

29. The method as claimed in claim 16, wherein the method further enhances a natural killer cell response.

30. The method as claimed in claim 16, wherein the method further enhances a natural killer cell response in a positive synergistic manner.

Sub C1) 31. A method for stimulating innate immunity comprising administering an effective amount of a composition comprising a saponin to an individual.

32. The method as claimed in claim 31, wherein the saponin is derived from *Quillaja saponaria*.

Sub C2) 33. The method as claimed in claim 32, wherein the saponin is modified.

34. The method as claimed in claim 32, wherein the saponin comprises a substantially pure saponin.

35. The method as claimed in claim 34, wherein the substantially pure saponin comprises QS-7, QS-17, QS-18, or QS-21.

36. The method as claimed in claim 35, wherein the substantially pure saponin comprises QS-21.

37. The method as claimed in claim 32, wherein the composition stimulates an innate immune response when administered to a mammal.

38. The method as claimed in claim 32, wherein the composition stimulates an innate immune response when administered to a human.

in claim 32,
istered to a

Jul 23

~~in claim~~

claimed in claim 12, where
 onse.
 claimed in claim 13, where
 onse.

claimed in claim 12, where
 onse.
 claimed in claim 13, where
 onse.

addc4